

Abstract

Method and feed device for carrying out the advancing movement of at least one tool rest rotating about a rotationally symmetric component

A method for carrying out the advancing movement of one or more tool rests rotating about a rotationally symmetric component and an associated feed device are described. The rests are capable in each case of being fed via a leadscrew, are supported on the component and are driven in rotation as a whole by a stationarily mounted main motor via a main transmission mechanism connected firmly to the support of the tool rest or tool rests. Rotating working machines of this type have hitherto operated with a large rotating mass. Moreover, it would be desirable for the machine to be capable of having a splittable design in order to be placed onto a component.

According to the method, there is provision for the advancing movement of each leadscrew to be brought about by the relative movement of a further motor-driven transmission mechanism cooperating with the leadscrew, in addition to the main transmission mechanism.

The relative movement is achieved by means of a feed device, in which each leadscrew (5) is capable of being driven by a further transmission mechanism and the latter by a fixed rest motor (13), the housing of which is mounted rotatably and coupled mechanically to the main motor (8) and is thus capable of being driven synchronously in rotation by the latter.

The solution is provided, in particular, for the machining of large shafts on site.

FIG 1